

Annals of Neurology

Vol 3 January June 1978

Official Journal of the American Neurological
Association and the Child Neurology Society



Editor

Fred Plum, MD, New York Hospital-Cornell
Medical Center, New York

Editorial Board

Stanley H. Appel, MD, Durham
Arthur K. Asbury, MD, Philadelphia
Wayne E. Crill, MD, Seattle
Robert B. Daroff, MD, Miami
John E. Desmedt, MD, Brussels
Darryl C. DeVivo, MD, St. Louis
Paul R. Dyken, MD, Augusta, GA
Andrew G. Engel, MD, Rochester, MN
Gerald S. Golden, MD, Galveston
Richard T. Johnson, MD, Baltimore
James W. Lance, MD, Little Bay, Australia
William M. Landau, MD, St. Louis
Robert Y. Moore, MD, La Jolla
Jerome B. Posner, MD, New York
Peritz Scheinberg, MD, Miami
Kenneth F. Swaiman, MD, Minneapolis
Robert D. Terry, MD, Bronx

Editorial Assistant

Glenna Batson, New York

Publisher

Little, Brown and Company, Boston
Manager, Medical Journals
Nancy H. Megley

ISSN 0364-5134

Published monthly by Little, Brown and Company, 34 Beacon Street, Boston, MA 02106. All rights reserved. Except as authorized in the accompanying statement, no part of *Annals of Neurology* may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without the publisher's written permission. Subscription rates per year: United States and possessions \$34.50; Canada \$35.50; elsewhere \$37.50. Special rates for students, interns, and residents per year: United States and possessions \$25.00; Canada \$26.00; elsewhere \$28.00. Institutional rates per year: United States and possessions \$39.50; Canada \$40.50; elsewhere \$42.50. Single copies \$4.50 prepaid. Second-class postage paid at Boston, MA, and at additional mailing offices. Copyright © 1978 by the American Neurological Association.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Beginning January 1, 1978, copying fees will be charged for material previously published in this journal according to fee rates on file with the Copyright Clearance Center, Inc.

Message from the Editor

- 1 **Changes in the Editorial Board**
Fred Plum, MD
-

Editorial Review

- 2 **The Pathophysiology of Focal Epilepsy: Neurophysiological Considerations**
Timothy A. Pedley, MD
-

Original Articles

- 10 **Neuropathological Changes in Cerebellar Biopsies of Epileptic Patients**
Michael Salzman, MD, Richard Defendini, MD, James Correll, MD, and Sid Gilman, MD
 - 20 **Valproic Acid in Epilepsy: Clinical and Pharmacological Effects**
Richard H. Mattson, MD, Joyce A. Cramer, BS, Peter D. Williamson, MD, and Robert A. Novelly, PhD
 - 26 **The Spectrum of Primary Blastomycotic Meningitis: A Review of Central Nervous System Blastomycosis**
Edward F. Gonyea, MD
 - 40 **Epidural Spinal Cord Compression from Metastatic Tumor: Diagnosis and Treatment**
Robert W. Gilbert, MD, Jae-Ho Kim, MD, and Jerome B. Posner, MD
 - 52 **Creatine Kinase BB Isoenzyme Levels by Radioimmunoassay in Patients with Neurological Disease**
Rodney D. Bell, MD, Roger N. Rosenberg, MD, Ruby Ting, MS, Amal Mukherjee, PhD, Marvin J. Stone, MD, and James T. Willerson, MD
 - 60 **McArdle Disease: The Mystery of Reappearing Phosphorylase Activity in Muscle Culture—A Fetal Isoenzyme**
Salvatore DiMauro, MD, Susan Arnold, BA, Armand Miranda, PhD, and Lewis P. Rowland, MD
 - 67 **Behavioral Toxicity of Anesthetic Gases**
Bruce D. Snyder, MD, Robert S. Thomas, PhD, and Zsuzsanna Gyorky, BA
 - 72 **Familial Multiple Sclerosis: Clinical, Histocompatibility, and Viral Serological Studies**
Roswell Eldridge, MD, Henry McFarland, MD, and John Sever, MD, with Doris Sadowsky, BS, and Helen Krebs, RN
 - 81 **Primary Cerebral Venous Thrombosis in Young Adults: The Diverse Manifestations of an Underrecognized Disease**
P. Averbach, MD
 - 87 **Normal CAT Scans in Craniopharyngioma**
Bruce T. Volpe, MD, Kathleen M. Foley, MD, and John Howieson, MD
-

Case Reports

- 90 **Bilateral Oculomotor Paralysis Due to Neurosyphilis**
Kenneth Jordan, MD, Joseph Marino, MD, and Melvyn Damast, MD
 - 93 **A Case of Schwartz-Jampel Syndrome with Unusual Muscle Biopsy Findings**
Ruggiero Fariello, MD, Keith Meloff, MD, E. Gordon Murphy, MD, Bernard J. Reilly, MD, and Dawna Armstrong, MD
-

Editorial

- 97 **Multiple Sclerosis and Canine Pets**
Leonard Kurland, MD, Dr PH, and Dana Brian, MD, MPH
-

Editorial Review

- 101 **What Hope for Repair of the Brain?**
Geoffrey Raisman, DM, DPhil
-

Original Articles

- 107 **Carotid and Vertebral-Basilar Transient Ischemic Attacks: Effect of Anticoagulants, Hypertension, and Cardiac Disorders on Survival and Stroke Occurrence—A Population Study**
Jack P. Whisnant, MD, Niall E. F. Cartlidge, MB, and Lila R. Elveback, PhD
-
- 116 **Levodopa in Parkinson Disease: A Long-Term Appraisal of Mortality**
Clifford Joseph, MD, Jacob B. Chassin, PhD, and Maria-Luise Koch, MD
-
- 119 **Four-Year Treatment of Patients with Parkinsonism Using Amantadine Alone or with Levodopa**
William H. Timberlake, MD, and Michael A. Vance, MS
-
- 129 **The Hypothalamus in Parkinson Disease**
J. William Langston, MD, and Lysia S. Forno, MD
-
- 134 **Dopamine Binding following Prolonged Haloperidol Pretreatment**
Ana Hitri, MS, William J. Weiner, MD, Richard L. Borison, MD, PhD, Bruce I. Diamond, PhD, Paul A. Nausieda, MD, and Harold L. Klawans, MD
-
- 141 **Further Evidence of a Possible Association between House Dogs and Multiple Sclerosis**
Stuart D. Cook, MD, Benjamin H. Natelson, MD, Barry E. Levin, MD, Pamela S. Chavis, MD, and Peter C. Dowling, MD
-
- 144 **The Cervical Myelopathy Associated with Rheumatoid Arthritis: Analysis of 32 Patients, with 2 Postmortem Cases**
Kenneth K. Nakano, MD, William C. Schoene, MD, Richard A. Baker, MD, and David M. Dawson, MD
-
- 152 **Ischemia-Induced Seizures and Cortical Monoamine Levels**
K. M. A. Welch, MBChB, MRCP, T.-P. F. Wang, MS, and Eva Chabi, BSc
-
- 156 **Regulation of Intracranial Pressure in Rat, Dog, and Man**
J. Douglas Mann, MD, Albert B. Butler, MD, Jaime E. Rosenthal, MD, Charles J. Maffeo, PhD, Richard N. Johnson, ScD, and Norman H. Bass, MD
-
- 166 **The Effects of Single-Dose Alternate-Day Prednisone Therapy on the Immunological Status of Patients with Neuromuscular Diseases**
J. D. Cook, MD, J. L. Trotter, MD, W. K. Engel, MD, and J. S. Sciabarrasi, MS
-

Case Reports

- 177 ***Amanita* Mushroom Poisoning with Recovery from Coma: A Case Report**
Carol Teutsch, MD, and Robert W. Brennan, MD
-
- 179 **Congenital Sensory Neuropathy with Selective Loss of Small Myelinated Fibers**
P. A. Low, FRACP, W. J. Burke, FRACP, and J. G. McLeod, DPhil (Oxon), FRACP
-
- 183 **Chronic Paroxysmal Hemicrania: A Disabling Headache Syndrome Responding to Indomethacin**
Richard W. Price, MD, and Jerome B. Posner, MD
-

Letters

- 185 **Transient Spastic Paraparesis following Abdominal Aortography: Management with Cerebrospinal Fluid Lavage**
Mircea A. Morariu, MD
- 185 **Immunological Studies Related to Brain Antigens in Huntington's Disease**
Ralph C. Williams, Jr, MD, Mary Lewis, BS, Jean Montaña, BS, Larry E. Davis, MD, and Gunnar Husby, MD
- 186 **Bilateral Ballismus in Phenytoin Intoxication**
Ciceron L. Opida, MD, Jan K. Kortbals, MD, and Mabendra Somasundaram, MD
-

NO 3 MARCH 1978

Original Articles

- 187 **Visual Dysfunctions in Optic Tract Lesions**
Morris B. Bender, MD, and Ivan Bodis-Wollner, MD
- 194 **Studies of Fragmented Sarcoplasmic Reticulum from Human Skeletal Muscle**
A. Scarpa, MD, S. DiMauro, MD, E. Bonilla, MD, and D. L. Schotland, MD
- 202 **The Action of Phenytoin on a Composite Electrical-Chemical Synapse in the Lamprey Spinal Cord**
Michael E. Selzer, MD, PhD
- 207 **Metabolic Response to Hypertonic Glucose Administration in Reye Syndrome**
Morey W. Haymond, MD, Irene E. Karl, PhD, James P. Keating, MD, and Darryl C. DeVivo, MD
- 216 **Ventricular Volume in Man Computed from CAT Scans**
Richard D. Penn, MD, Michael G. Belanger, MS, and William A. Yasnoff, MD
- 224 **A Disorder of Biogenic Amines in Dihydropteridine Reductase Deficiency**
Ian J. Butler, MB, FRACP, Stephen H. Koslow, PhD, Allan Krumholz, MD, Neil A. Holtzman, MD, and Seymour Kaufman, PhD
- 231 **Anomalies of Motor Development in Hyperactive Boys**
Martha Bridge Denckla, MD, and Rita G. Rudel, PhD
- 234 **The Cherry-Red Spot-Myoclonus Syndrome**
Isabelle Rapin, MD, Sidney Goldfischer, MD, Robert Katzman, MD, Jerome Engel, Jr, MD, PhD, and John S. O'Brien, MD
- 243 **Gaze-Evoked Blepharoclonus**
James R. Keane, MD
- 246 **Predictors of Mortality in Presenile and Senile Dementia**
Alfred W. Kaszniak, PhD, Jacob Fox, MD, David L. Gandell, BS, David C. Garron, PhD, Michael S. Huckman, MD, and Ruth G. Ramsey, MD
- 253 **Familial Degeneration of the Basal Ganglia with Acanthocytosis: A Clinical, Neuropathological, and Neurochemical Study**
T. D. Bird, MD, S. Cederbaum, MD, R. W. Valpey, MD, and W. L. Stahl, PhD
- 259 **Perhexiline Neuropathy: A Clinicopathological Study**
Gérard Said, MD
- 267 **A Double-Blind Comparison of Levodopa, Madopa, and Sinemet in Parkinson Disease**
Shirley G. Diamond, BA, Charles H. Markham, MD, and Leo J. Treciokas, MD
-

-
- 273 **Changing Patterns of Childhood Aphasia**
Bryan T. Woods, MD, and Hans-Lukas Teuber, PhD
-

Case Report

- 281 **Clinical Variation in 2 Related Children with Neuronopathic Gaucher Disease**
Warren D. Grover, MD, Samuel H. Tucker, MD, and David A. Wenger, PhD
-

Regular Departments

- 284 **Books**
-

NO 4 APRIL 1978

Original Articles

- 285 **Speech Disorders in Cerebellar Disease**
Richard Lechtenberg, MD, and Sid Gilman, MD
-
- 291 **The Distribution of Myelin Basic Protein in Central Nervous System Lesions of Multiple Sclerosis and Acute Experimental Allergic Encephalomyelitis**
John N. Whitaker, MD
-
- 299 **The EEG Manifestations of Chronic Ethanol Abuse: Relation to Cerebral Cortical Atrophy**
S. E. Newman, MD
-
- 305 **Free Amino Acid Levels in Amyotrophic Lateral Sclerosis**
Bernard M. Patten, MD, Yadollah Harati, MD, Luis Acosta, MD, Shin-Siung Jung, MD, and Mark T. Felmus, MD, PhD
-
- 310 **Experimental Analysis of EMG Feedback in Treating Dystonia**
Bruce L. Bird, PhD, and Michael F. Cataldo, PhD
-
- 316 **The Syndrome of Facial Nevi, Anomalous Cerebral Venous Return, and Hydrocephalus**
Linda S. Orr, MD, Robert H. Osher, MD, and Peter J. Savino, MD
-
- 319 **Comparison between Lergotril and Bromocriptine in Parkinsonism**
P. F. Teychenne, MD, R. F. Pfeiffer, MD, S. M. Bern, PharmD, D. McInturff, and D. B. Calne, DM
-
- 325 **Cerebral Blood Flow and Metabolism in Chronically Hyperammonemic Rats: Effect of an Acute Ammonia Challenge**
Albert Gjedde, MD, Alan H. Lockwood, MD, Thomas E. Duffy, PhD, and Fred Plum, MD
-
- 331 **Chronic Ketosis and Cerebral Metabolism**
Darryl C. DeVivo, MD, Mary P. Leckie, BS, James S. Ferrendelli, MD, and David B. McDougal, Jr, MD
-
- 338 **Intracranial Arteriovenous Malformations in Childhood**
John J. Kelly, Jr, MD, James F. Mellinger, MD, and Thoralf M. Sundt, Jr, MD
-
- 344 **Proximal versus Distal Slowing of Motor Nerve Conduction Velocity in the Guillain-Barré Syndrome**
Jun Kimura, MD
-
- 351 **Ectopic Generation of Impulses and Cross-Talk in Spinal Nerve Roots of "Dystrophic" Mice**
Michael Rasminsky, MD, PhD
-
- 358 **Effect of Prednisolone on Motor End-Plate Fine Structure: A Morphometric Study in Hamsters**
S. Chokroverty, MBBS, MRCP, M. G. Reyes, MD, M. Chokroverty, MBBS, and R. Kaplan, BS
-

Brief Communications

- 366 **Benign Cerebellar Hemorrhages**
Terry D. Heiman, MD, and Saty Satya-Murti, MD
- 368 **Effects of Hypothermia on the Human Brainstem Auditory Response**
James J. Stockard, MD, PhD, Frank W. Sharbrough, MD, and John A. Tinker, MD

Letters

- 371 **Recovery of Cognition after Prolonged Coma**
Philip Yarnell, MD
- 371 **Treatment of Polymyositis with Niridazole**
David C. Haas, MD
- 372 **Treatment of Acute Cerebral Ischemia with Intravenous Aminophylline**
William J. Estrin, MD
- 372 **Physostigmine in Wilson Disease**
Daniel Tarsy, MD, John F. Mahoney, MD, and Jeffrey L. Cummings, MD
- 373 **Effect of Carbamazepine on Blood Elements**
Joel Y. Rutman, MD
- 373 **Ophthalmoscopy in Examination of Patients with Vestibular Disorders**
David S. Zee, MD
- 374 **Granulomatous Angiitis with Preceding Varicella Zoster**
William I. Rosenblum, MD, M. Gary Hadfield, MD, and Harold F. Young, MD
- 375 **Rebleeding Rate of Untreated Cerebral Aneurysm**
Robert Karis, MD
- 375 **Reply**
H. Richard Winn, MD, John A. Jane, MD, and A. E. Richardson, MD
- 376 **Stimulant Drugs and Academic Performance in Hyperactive Children**
Russell A. Barkley, PhD
- 376 **Reply**
Michael Duchowny, MD, and Alan Leviton, MD

NO 5 MAY 1978

Editorial

- 377 **Control of Cerebral Blood Vessels: Present State of the Art**
M. J. Purves

Editorial Review

- 384 **Report on the 1977 Meeting of the Peripheral Nerve Study Group**

Original Articles

- 388 **Papulosis Atrophicans Maligna (Köhlmeier-Degos Disease):
A Disseminated Occlusive Vasculopathy**
*H. Richard McFarland, MD, William G. Wood, MD,
Bruce V. Drowns, MD, and Antonio C. O. Meneses, MD*

-
- 393 **Neoplastic Angioendotheliosis: Ultrastructural Study and Review of the Literature**
*Carol K. Petito, MD, Geoffrey J. Gottlieb, MD, John H. Dougherty, MD,
 and Frank A. Petito, MD*
-
- 400 **Appraisal of the PAM Cell Effect as a Diagnostic Test for Multiple Sclerosis**
Howard Cohn, MD, Joel Oger, MD, Olivier Sabouraud, MD, and Maurice Ardouin, MD
-
- 403 **A Technique for the Elution of Cell-Surface Antibody from Human Brain Tissue**
Donald Gilden, MD, Mary Devlin, BS, and Zofia Wroblewska, MD
-
- 406 **Infantile Spasms in Down Syndrome:**
A Report of 5 Cases and Review of the Literature
*Michael A. Pollack, MD, Gerald S. Golden, MD, Rina Schmidt, MD,
 Jessica A. Davis, MD, and Norman Leeds, MD*
-
- 409 **Clinical Evaluation of Metrizamide for Neuroradiology in Children**
Herbert M. Swick, MD, John R. Sty, MD, and Victor M. Haughton, MD
-
- 416 **Prolonged Neonatal Myasthenia Gravis: Electrophysiological Studies**
Clinton E. Branch, Jr, MD, Thomas R. Swift, MD, and Paul R. Dyken, MD
-
- 419 **Juvenile Neuroaxonal Dystrophy: Clinical, Electrophysiological, and Neuropathological Features**
*Leslie J. Dorfman, MD, Timothy A. Pedley, MD, Barry R. Tharp, MD,
 and Bernd W. Scheithauer, MD*
-
- 429 **Juvenile Type of Distal and Segmental Muscular Atrophy of Upper Extremities**
I. Sobue, MD, N. Saito, MD, M. Iida, MD, and K. Ando, MD
-
- 433 **Attenuated Dynamic Responses of Primary Endings of Muscle Spindles:**
A Basis for Depressed Tendon Responses in Acrylamide Neuropathy
*Herbert E. Lowndes, PhD, Thomas Baker, MS, Leslie P. Michelson, PhD,
 and Martha Vincent-Ablazey, BS*
-
- 438 **Papillophlebitis: Benign Retinopathy Resembling Papilledema or Papillitis**
Carl Ellenberger, Jr, MD, and Kenneth H. Messner, MD
-

Brief Communications and Case Reports

-
- 441 **Transient Cerebral Dysfunction following Chemotherapy for Osteogenic Sarcoma**
Jeffrey C. Allen, MD, and Gerald Rosen, MD
-
- 445 **Hydrocephalus Caused by Increased Intracranial Venous Pressure:**
A Clinicopathological Study
N. Paul Rosman, MD, and Kathryn N. Shands, MD
-
- 450 **Sagittal Sinus Thrombosis as a Complication of Regional Enteritis**
Bruce Sigsbee, MD, and David A. Rottenberg, MD
-
- 453 **Juvenile Parkinsonism: A Patient with Possible Primary Striatal Dysfunction**
Sakkubai Naidu, MD, Leslie I. Wolfson, MD, and Nansie S. Sharpless, PhD
-
- 455 **Kearns-Sayre Syndrome and Hypoparathyroidism**
*J. M. Pellock, MD, M. Behrens, MD, L. Lewis, MD, D. Holub, MD, S. Carter, MD,
 and L. P. Rowland, MD*
-
- 458 **Hypothalamic Hypothyroidism Causing Spastic Paraplegia: Recovery following Thyroid Medication**
*Ivor M. D. Jackson, MD, Peter D. Papapetrou, MD, John R. Hills, MD,
 and Marilyn Kassirer, MD*
-
- 461 **Late Components of Motor Unit Potentials in a Patient with Myoglobinuria**
Jackson B. Pickett, MD
-
- 464 **Blue Rubber Bleb Nevus Syndrome with CNS Involvement and Thrombosis of a Vein of Galen Malformation**
E. A. Waybright, MD, J. B. Selhorst, MD, W. I. Rosenblum, MD, and C. G. Suter, MD
-

Letters

- 468 **Vaccination Mononeuropathy**
Frances M. Dyro, MD
-
- 468 **Infectious Diseases and PML**
John Moossy, MD
-
- 468 **Palmaris Brevis Sign in Neuropathy of the Deep Palmar Branch of the Ulnar Nerve**
A. Bernard Pleet, Comdr, and E. Wayne Massey, Lt Comdr, both MC, USN
-
- 469 **Chloramphenicol-Induced Phenytoin Intoxication**
Frederick M. Vincent, MD, Letha Mills, MD, and John Kelly Sullivan, MD
-

Regular Departments

- 470 **Books**
-

NO 6 JUNE 1978

Hypothesis

- 471 **Possible Biochemical Basis of Memory Disorder in Alzheimer Disease**
Christine M. Smith, PhD, and Michael Swash, MD, FRCP
-

Original Articles

- 474 **Nonsurgical Cure of Brain Abscess:
Early Diagnosis and Follow-up with Computerized Tomography**
*Bruce Berg, MD, Gary Franklin, MD, Richard Cuneo, MD, Edwin Boldrey, MD,
and Bruce Strimling, MD*
-
- 479 **Failure to Demonstrate Papovavirus Tumor Antigen in Human Cerebral Neoplasms**
*John E. Greenlee, MD, Laurence E. Becker, MD, Opendra Narayan, DVM, PhD,
and Richard T. Johnson, MD*
-
- 482 **Diffuse Cerebral Ischemia in the Cat:**
I. Local Blood Flow during Severe Ischemia and Recirculation
Myron D. Ginsberg, MD, William W. Budd, BS, and Frank A. Welsh, PhD
-
- 493 **Diffuse Cerebral Ischemia in the Cat:**
II. Regional Metabolites during Severe Ischemia and Recirculation
Frank A. Welsh, PhD, Myron D. Ginsberg, MD, Wendy Rieder, BS, and William W. Budd, BS
-
- 502 **Treatment of Subarachnoid Hemorrhage from Ruptured Intracranial Aneurysms
with Tranexamic Acid: A Double-Blind Clinical Trial**
Benjamin Chandra, MD, PhD
-
- 505 **Nonsensory Neglect**
Robert T. Watson, MD, Bayard D. Miller, MD, and Kenneth M. Heilman, MD
-
- 509 **Determination of Immunoglobulin Content
of CSF Based on Light Chain Characteristics**
K. Eickhoff, MD, and R. Heipertz, MD
-
- 513 **Kearns-Sayre Syndrome with Hypoparathyroidism**
Samuel J. Horwitz, MD, and Uros Roessmann, MD
-
- 519 **Leigh's Disease in an Adult with Evidence of "Inhibitor Factor" in Family Members**
William O. Whetsell, Jr, MD, and Andreas Plaitakis, MD
-
- 525 **Differences in Reaction Times and Average
Evoked Potentials as a Function of Direct and Indirect Neural Pathways**
Alexa Ledlow, PhD, James M. Swanson, PhD, and Marcel Kinsbourne, MD
-

-
- 531 **Effects of Acetazolamide on Myotonia**
Robert C. Griggs, MD, Richard T. Moxley, III, MD, Jack E. Riggs, MD, and W. King Engel, MD
-

- 538 **Anatomical Correlates of Electrical and Behavioral Events Related to Amygdaloid Kindling**
Jerome Engel, Jr, MD, PhD, Leslie Wolfson, MD, and Lucy Brown, PhD
-

Brief Communications and Case Reports

- 545 **Huntington Disease Associated with Alzheimer Disease**
Gerald C. McIntosh, MD, H. Douglas Jameson, MD, and William R. Markesbery, MD
-

- 549 **Alexia and Left Homonymous Hemianopia in a Non-Right-Hander**
Samard Erkulvrawatr, MD, MRSH
-

- 552 **Further Characterization of Bound Measles-Specific IgG Eluted from SSPE Brains**
P. D. Mehta, PhD, A. Kane, BS, and H. Thormar, PhD
-

- 555 **Cytoplasmic Filaments in Intracerebral Cortical Vessels**
Sukriti Nag, MD, David M. Robertson, MD, and Henry B. Dinsdale, MD
-

- 559 **The Malignancy of Dementias**
Rodney C. P. Go, PhD, Alexandre B. Todorov, MD, Robert C. Elston, PhD, and Jean Constantinides, MD
-

Letters

Neurological Research

- 562 *Joseph B. Martin, MD, PhD*
562 *W. Maxwell Cowan, MD, PhD*
563 *Stephen Stolzberg, MD*
563 *Charles A. Kane, MD*
563 *Frank M. Yatsu, MD*
-

- 563 **Arachnoid Cyst with Choroid Plexus**
Ellsworth C. Alvord, Jr, MD, and Cheng-Mei Shaw, MD
-

- 564 **Is the Right Hemisphere Silent?**
Malvin Cole, MD
-

Announcement

- 565 **Criteria for Diagnosis of Guillain-Barré Syndrome**
-

Indexes to Volume 3

- 567 **Author Index**
569 **Subject Index**
-

Regular Departments

- 504 **Notice from the Editor**
-

